

CSL AGU Presentation Schedule 2020

Italics represent former students/guests/employee of NOAA

Presentation date	Presenter Name	Title	Presentation Length	Session Time	Session Number	Session Title	Presentation Type
MONDAY							
12.07.2020	Ryuji Yoshida	A 2-D framework for accelerating the development of physics schemes in high resolution global modeling	16:15-16:18 PST 17:15-17:18 MST	16:00-17:00 PST 17:00-18:00 MST	A022-06	Addressing Challenges for the Next Generation of Earth System Models III	lightning
12.07.2020	Erik Larson	Wildfire risk and emissions predictions for SE Asia peatlands based on mechanistic modeling	20:54-20:58 PST 21:54-21:58 MST	20:30-21:30 PST 21:30-22:30 MST	GC020-07	Tropical Forest Biogeochemical and Carbon-Water Cycle Coupling: Observations, Modeling, and Feedbacks II	Oral
12.07.2020	Steven Brown	Chair		19:00-20:00 PST 20:00-21:00 MST	A025	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data I	Oral
12.07.2020	Jessica Gilman	Primary Covener		20:00-21:00 PST	A025	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data I	session Proposal
TUESDAY							
12.08.2020	Karl Froyd	A new look at the influence of mineral dust on cirrus cloud formation by combining global-scale measurements, global modeling, and detailed microphysical simulations	04:00-04:04 PST 05:00-05:04 MST	04:00-05:00 PST 05:00-06:00 MST	A030-01	Dust in a Changing Climate: From Small-Scale Insights to Large-Scale Understanding III	Oral
12.08.2020	Sean Davis	Validation of SAGE III/ISS water vapor data and implications for a continued middle atmosphere water vapor data record	10:38-10:42 PST 11:38-11:42 MST	10:30-11:30 PST 11:30-12:30 MST	A049-03	Recent Findings from Spaceborne Observations of the Middle Atmosphere I	Oral
12.08.2020	Ann Middlebrook	An Examination of the Impact of Local Shelter-in-Place Orders on Atmospheric Aerosol Mass and Chemical Composition in Boulder Colorado During the COVID-19 Pandemic	10:46-10:50 PST 11:46-11:50 MST	10:30-11:30 PST 11:30-12:30 MST	A048-05	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data II	Oral
12.08.2020	Aaron Lamplugh	COVID-AQS: A rapid response study to monitor air-quality impacts of COVID-19 in Boulder, CO	10:50-10:54 PST 11:50-11:54 MST	10:30-11:30 PST 11:30-12:30 MST	A048-05	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data II	Oral
12.08.2020	Gregory Schill	Trace amounts of Br and I are ubiquitous in non-sea-salt aerosol	16:32-16:36 PST 17:32-17:36 MST	16:00-17:00 PST 17:00-18:00 MST	A051-05	Biosphere-Atmosphere Interactions and Atmospheric Chemistry II	Oral
12.08.2020	Andrew Langford	Background Ozone above the Colorado Front Range during the COVID-19 Pandemic		04:00-20:59 PST 05:00-21:59 MST	A034	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data IV	Posters
12.08.2020	Ken Aikin	Discerning changes in primary and secondary pollutants due to COVID-19 amid natural variability and exceptional events by using monitoring network data		04:00-20:59 PST 05:00-21:59 MST	A034-0009	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data IV	Posters
12.08.2020	Jeff Peischl	A comparison of ambient measurements of NO _x , CO, O ₃ , and PM _{2.5} during the COVID-19 pandemic with a climatological multiple linear regression model for various U.S. cities		04:00-20:59 PST 05:00-21:59 MST	A034-0014	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data IV	Posters
12.08.2020	<i>Henry Bowman</i>	<i>Shifting Seasonal Cycle of Tropospheric Ozone: Analysis of CMIP6 Earth System Model Simulations</i>		04:00-20:59 PST 05:00-21:59 MST	A039-0013	CMIP6 Climate Model Evaluation III	Posters
12.08.2020	Steven Brown	Chair		04:00-20:59 PST 05:00-21:59 MST	A034	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of In Situ Data IV	Posters

12.08.2020	Steven Brown	Chair		10:30-11:30 PST 11:30-12:30 MST	A048	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of in Situ Data II	Oral
12.08.2020	Jessica Gilman	Primary Convener		10:30-11:30 PST 11:30-12:30 MST	A048	Air Quality During the COVID-19 Pandemic: Responses to Emissions Reductions and the Role of in Situ Data II	Session
WEDNESDAY							
12.09.2020	Greg Frost	Overview of NOAA Research on Atmospheric Impacts Related to the COVID-19 Pandemic (Invited)	04:04-04:08 PST 05:04-05:08 MST	04:00-05:00 PST 05:00-06:00 MST	A057-02	Global and Local Effects of the COVID-19-Related Quarantine Measures on Air Quality and Emissions I	Oral
12.09.2020	Jake Gristey	A direct mapping between shallow cumulus cloud field properties and three-dimensional surface solar irradiance	07:16-07:20 PST 08:16-08:20 MST	07:00-08:00 PST 08:00-09:00 MST	A071-05	Applications of Machine Learning Algorithms in Modeling Atmospheric Aerosols, Clouds, and Radiation I	Oral
12.09.2020	Karen Rosenlof	A variation on a stratospheric aerosol injection scheme for climate intervention	19:28-19:32 PST 20:28-20:32 MST	19:00-20:00 PST 20:00-21:00 MST	GC048-08	Climate Intervention, Mitigation, Adaptation, and Restoration Solutions: Interdisciplinary Development and Evaluation of Safety and Efficacy I	Oral
12.09.2020	Rebecca Schwantes	Importance of Chemical Mechanism Complexity for Simulating Ozone under the Changing Chemical Regimes in 2020 and Beyond	19:16-20:20 PST 20:16-20:20 MST	19:00-20:00 PST 20:00-21:00 MST	A079-05	Global and Local Effects of the COVID-19-Related Quarantine Measures on Air Quality and Emissions II	Oral
12.09.2020	Meng Li	Ozone Changes Over the United States Due to COVID-19	19:24-19:28 PST 20:24-20:28 MST	19:00-20:00 PST 20:00-21:00 MST	A079-07	Global and Local Effects of the COVID-19-Related Quarantine Measures on Air Quality and Emissions II	Oral
12.09.2020	Steven Brown	Chair		07:00-08:00 PST 08:00-09:00 MST	A070	Air Quality During the COVID-19 Pandemic & Responses to Emissions Reductions and the Role of in-Situ Data III	Oral
12.09.2020	Steven Brown	Chair		04:00-20:59 PST 05:00-21:59 MST	A058	Air Quality During the COVID-19 Pandemic & Responses to Emissions Reductions and the Role of in-Situ Data V	Poster
12.09.2020	Brian McDonald	Chair		04:00-20:59 PST 05:00-21:59 MST	A067	Global and Local Effects of the COVID-19-Related Quarantine Measures on Air Quality and Emissions IV	Poster
12.09.2020	Brian McDonald	Chair		19:00-20:00 PST 20:00-21:00 MST	A079	Global and Local Effects of the COVID-19-Related Quarantine Measures on Air Quality and Emissions II	Oral
THURSDAY							
12.10.2020	Charles Brock	A Global-Scale In Situ Dataset of Aerosol Properties from the Atmospheric Tomography Mission (ATom)	10:34-10:38 PST 11:34-11:38 MST	10:30-11:30 PST 11:30-12:30 MST	A100-02	Multisensor, Model, and Measurement Synergy to Constrain Aerosol State and Impacts I	Oral
12.10.2020	Chelsea Thompson	Evaluating the impacts of an ocean NO _x source on O ₃ and OH in the remote troposphere		04:00-20:59 PST 05:00-21:59 MST	A086-0016	Atmospheric Oxidation Capacity Constraints: Laboratory Investigations, Field and Remote Sensing Observations, and Modeling Studies II	Poster
FRIDAY							
12.11.2020	Colby Francoeur	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across Contiguous US	05:50-05:54 PST 06:50-06:54 MST	05:30-06:30 PST 06:30-07:30 MST	A124-06	Emissions of Atmospheric Pollutants from Oil, Gas, and Coal Operations I	Oral
12.11.2020	Daniel Murphy	Size-dependent aerosol radiative impacts in the lower stratosphere	19:08-19:12 PST 20:08-20:12 MST	19:00-20:00 PST 20:00-21:00 MST	A135-03	Advances in Observations to constrain Aerosol Radiative Forcing Is	Oral
12.11.2020	Pornampai Narenpitak	Lagrangian Large Eddy Simulations of Trade Cumulus Organization During ATOMIC		04:00-20:59 PST 05:00-21:59 MST	A118-0004	Lagrangian and Climatological Transitions of Warm Boundary Layer Clouds II	Poster
12.11.2020	Xiaoli Zhou	Study of scale controlling factors of marine boundary layer mesoscale cells observed from AMSR-E using wavelet analysis		04:00-20:59 PST 05:00-21:59 MST	A118-0009	Lagrangian and Climatological Transitions of Warm Boundary Layer Clouds II	Poster

MONDAY							
12.14.2020	Melissa Breeden	The Spring Transition of the North Pacific Jet and its relation to Deep Stratosphere-to-Troposphere Mass Transport over Western North America	19:24-20:28 PST 20:24-20:28 MST	19:00-20:00 PST 20:00-21:00 MST	A169-07	Extratropical Large-Scale Atmospheric Circulation Variability I	Oral
12.14.2020	Jan Kazil	Trade cumulus cold pool properties during the ATOMIC and EUREC ⁴ A field campaign season		04:00-20:59 PST 05:00-21:59 MST	A145-0002	Atmospheric and Oceanic Processes Governing the Trade Wind Regions II	Poster
12.14.2020	Sunil Baidar	Doppler lidar observations of Trade Cumulus Clouds during ATOMIC		04:00-20:59 PST 05:00-21:59 MST	A145-0003	Atmospheric and Oceanic Processes Governing the Trade Wind Regions II	Poster
12.14.2020	Claire Granier	Anthropogenic and Natural Emissions for Atmospheric Chemistry Global and Regional Modeling		04:00-20:59 PST 05:00-21:59 MST	A150-0002	Drivers of Extreme Air Pollution in Urban Environments III	Poster
TUESDAY							
12.15.2020	Troy Thornberry	Fire Radiative Power Measurements from the NOAA Met Twin Otter during FIREX-AQ	05:50-05:54 PST 06:50-06:54 MST	05:30-06:30 PST 06:30-07:30 MST	A191-06	Advances in remote Sensing of Fire Processes and Biomass Burning Emissions I	Oral
12.15.2020	Tom Goren	<i>A Simple Model to Estimate the Extent and Radiative Effect of Stratocumulus Decks Under a Cleaner Atmosphere</i>	10:24-10:28 PST 11:24-11:28 MST	10:00-11:00 PST 11:00-12:00 MST	A195-07	<i>Boundary Layer Clouds and Climate Change I</i>	Oral
12.15.2020	Graham Feingold	Quantifying biases in aerosol-cloud-radiation interactions associated with spatiotemporal averaging	11:42-11:45 PST 12:42-12:45 MST	11:30-12:30 PST 12:30-13:30 MST	A200-05	Boundary Layer Clouds and Climate Change III	lightning
12.15.2020	Fabian Hoffmann	<i>What can Possibly go Wrong? Cloud Microphysical Implications for Marine Cloud Brightening</i>	11:48-11:51 PST 12:48-12:51 MST	11:30-12:30 PST 12:30-13:30 MST	A200-07	<i>Boundary Layer Clouds and Climate Change III</i>	lightning
12.15.2020	Alan Brewer	Scanning Doppler lidar measurements made from the NOAA Met Twin Otter during FIREX-AQ	17:58-18:02 PST 18:58-19:02 MST	17:30-18:30 PST 18:30-19:30 MST	A202-08	Advances in remote Sensing of Fire Processes and Biomass Burning Emissions II	Oral
12.15.2020	Carrie Womack	New Techniques for broadband cavity enhanced spectroscopy retrieval algorithms		04:00-20:59 PST 05:00-21:59 MST	A175-0011	Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air pollutants II	Poster
12.15.2020	Jianhao Zhang	Amplified Seasonal Cycle in Low-cloud Fraction over the Remote Southeast Atlantic when Shortwave-absorbing Aerosols are Present		04:00-20:59 PST 05:00-21:59 MST	A180-0004	Boundary Layer Clouds and Climate Change II	Poster
12.15.2020	Derek Price	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements		04:00-20:59 PST 05:00-21:59 MST	A184-0015	Inside Out: Interactions Between Indoor and Outdoor Emissions and Air Quality II	Poster
12.15.2020	Carsten Warneke	Volatile Chemical Products Have a Major Impact on Air Quality in U.S. Cities		04:00-20:59 PST 05:00-21:59 MST	A184-0017	Inside Out: Interactions Between Indoor and Outdoor Emissions and Air Quality II	Poster
12.15.2020	Aparajeo Chattopadhyay	Photochemistry of monochlorodimethyl sulfide (CH ₃ SCH ₂ Cl)		04:00-20:59 PST 05:00-21:59 MST	A185-0010	Laboratory Studies in Atmospheric Sciences III	Poster
12.15.2020	James Burkholder	H ₂ SO ₄ Chemistry in the Stratosphere		04:00-20:59 PST 05:00-21:59 MST	A185-0012	Laboratory Studies in Atmospheric Sciences III	Poster
12.15.2020	James Roberts	Chemical Sources for the On-line Calibration of Gas-phase Atmospheric Measurement Instrument		04:00-20:59 PST 05:00-21:59 MST	A185-0017	Laboratory Studies in Atmospheric Sciences III	Poster
12.15.2020	Antara Banerjee	A pause in Southern Hemisphere circulation trends due to the Montreal Protocol		04:00-20:59 PST 05:00-21:59 PST	A189-0005	The Dynamics of the Large-Scale Atmospheric Circulation in the Past, Present, and Future Climate: Jet Streams, Storm Tracks, Stationary Waves, and Monsoons	Poster

12.15.2020	Brian McDonald	Chair		04:00-20:59 PST 05:00-21:59 MST	A184-0017	Inside Out: Interactions Between Indoor and Outdoor Emissions and Air Quality II	Poster Session
WEDNESDAY							
12.16.2020	Jessica Gilman	Compositional comparison and atmospheric impacts of volatile organic compounds (VOCs) emitted from agricultural fires and wildfires measured with the NOAA Integrated Whole Air Sampling System during FIREX-AQ	05:34-05:38 PST 06:34-06:38 MST	05:30-06:30 PST 06:30-07:30 MST	A232-02	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate I	Oral
12.16.2020	Adam Ahern	In situ polarimetry measurements of smoke from wildfires during FIREX-AQ	05:50-05:54 PST 06:50-06:54 MST	05:30-06:30 PST 06:30-07:30 MST	A232-06	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate I	Oral
12.16.2020	Amy Butler (author) Simon Lee (presenting)	Seasonal Forecasts of the Exceptional Northern Hemisphere Winter of 2020	05:57-06:00 PST 06:57-07:00 MST	05:30-06:30 PST 06:30-07:30 MST	A233-10	Atypical Polar Stratospheric Winters in 2019 and 2020: Causes and Consequences II	Lightning
12.16.2020	Zachary Decker	Chemical transformation of wildfire smoke at the transition from day to night	07:04-07:08 PST 08:04-08:08 MST	07:00-08:00 PST 08:00-09:00 MST	A234-02	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate II	Oral
12.16.2020	Matthew Coggon	Connecting laboratory and field measurements of smoke composition to build a framework explaining ozone formation from Western U.S. wildfires measured during FIREX-AQ (Invited)	07:08-07:12 PST 08:08-08:12 MST	07:00-08:00 PST 08:00-09:00 MST	A234-03	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate II	Oral
12.16.2020	Rebecca Washenfelder	Evolution of Brown Carbon Aerosol Absorption Downwind of Wildfires in the Western U.S.	07:16-07:20 PST 08:16-08:20 MST	07:00-08:00 PST 08:00-09:00 MST	A234-05	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate II	Oral
12.16.2020	Nicholas Wagner	Observations of Aerosol Absorption and Attribution to Black Carbon, Brown Carbon, and Coating Enhancement in Wildfire Smoke during the FIREX-AQ Mission	16:08-16:12 PST 17:08-17:12 MST	16:00-17:00 PST 17:00-18:00 MST	A243-03	Light Absorbing Carbon Aerosol from Observations and Models I	Oral
12.16.2020	Christopher Maloney	Ozone Loss and Climate Change Caused by Black Carbon Emissions from an Increasing Frequency of Rocket Launches	16:24-16:28 PST 17:24-17:28 MST	16:00-17:00 PST 17:00-18:00 MST	A243-07	Light Absorbing Carbon Aerosol from Observations and Models I	Oral
12.16.2020	Elizabeth Asher	A spatially dense aerosol instrument network in the southern great plains: POPSnet-SGP	17:38-17:42 PST 18:38-18:42 MST	17:30-18:30 PST 18:30-19:30 MST	A244-03	Ground-Based Atmospheric Monitoring Networks I	Oral
12.16.2020	Pamela Rickly	Emissions and evolution of SO ₂ from biomass burning during FIREX-AQ		4:00-20:59 PST 05:00-21:59 MST	A224-002	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VI	Poster
12.16.2020	Aaron Lamplugh	Emissions from Western Wildfires and Southeastern Agricultural Fires: An Analysis of VOC measurements from the NASA DC-8 during FIREX-AQ		04:00-20:59 PST 05:00-21:59 MST	A224-0010	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VI	Poster
12.16.2020	Georgios Gkatzelis	Non-Methane organic and nitrogen emissions from wildfire plumes during FIREX-AQ		04:00-20:59 PST 05:00-21:59 MST	A224-0013	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VI	Poster
12.16.2020	Michael Robinson	Variability and diel dependence of O ₃ - NO _x - VOC chemistry in western wildfire plumes: Results from the NOAA Twin Otter during FIREX-AQ		04:00-20:59 PST 05:00-21:59 MST	A225-0011	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VII	Poster

12.16.2020	Alessandro Franchin	Connections between the Organic Aerosol Composition and Optical Properties of Biomass Burning Aerosols Measured from the NOAA Twin Otter Aircraft During the 2019 FIREX-AQ Project		04:00-20:59 PST 05:00-21:59 MST	A225-0012	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VII	Poster
12.16.2020	Carsten Warneke	Primary Covener/Chair		05:30-06:30 PST 06:30-07:30 MST	A232	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate I	Oral Session
12.16.2020	Joshua Schwarz	Chair		07:00-08:00 PST 08:00-09:00 MST		Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate II	Oral Session
12.16.2020	Joshua Schwarz	Chair		16:00-17:00 PST 17:00-18:00 MST		Light Absorbing Carbon Aerosol from Observations and Models I	Oral Session
12.16.2020	Joshua Schwarz	Chair		04:00-20:59 PST 05:00-21:59 MST		Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VI	Poster Session
12.16.2020	Joshua Schwarz	Chair		04:00-20:59 PST 05:00-21:59 MST		Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate VII	Poster Session
12.16.2020	Joshua Schwarz	Chair		04:00-20:59 PST 05:00-21:59 MST		Light Absorbing Carbon Aerosol from Observations and Models II	Poster Session
THURSDAY							
12.17.2020	Joseph Katich	An in-situ characterization of aged stratospheric smoke from the 2017 Pacific Northwest Event pyrocumulonimbus	04:42-04:45 PST 05:42-05:45 MST	04:00-05:00 PST 05:00-06:00 MST	A251-15	Megafire and Pyrocumulonimbus in the Climate System I	Lightening
12.17.2020	Megan Bela	Effects of Emissions, Transport, and Chemistry on Prediction of Air Quality Impacts from Fires	07:04-07:08 PST 08:04-08:08 MST	07:00-08:00 PST 08:00-09:00 MST	A255-02	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate IV	Oral
12.17.2020	Siyuan Wang	Turbulence-chemistry interactions in fresh wildland fire plumes: implications from high-resolution LES-chemistry simulations	07:32-07:36 PST 08:32-08:36 MST	07:00-08:00 PST 08:00-09:00 MST	A255-09	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate IV	Oral
12.17.2020	Joshua Schwarz	Chair		16:00-17:00 PST 17:00-18:00 MST	A255	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate IV	Oral Session
12.17.2020	Carsten Warneke	Primary Covener/Chair		07:00-08:00 PST 08:00-09:00 MST	A255	Smoke in the Air: Biomass Burning Emissions, Chemical Evolution, and Impacts on Air Quality and Climate IV	Oral Session